Stearamide, m-hydroxyphenol

Other names: N-4-hydroxyphenylstearamide
Inchi: InChI=1S/C24H41NO2/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-24(27)25-22-18-20-
InchiKey: YASWBJXTHOXPGK-UHFFFAOYSA-N
Formula: C24H41NO2
SMILES: CCCCCCCCCCCCCCCCCC(=O)Nc1ccc(O)cc1
Mol. weight [g/mol]: 375.59
CAS: 103-99-1

Physical Properties

Property code	Value	Unit	Source
gf	69.46	kJ/mol	Joback Method
hf	-538.58	kJ/mol	Joback Method
hfus	64.44	kJ/mol	Joback Method
hvap	97.49	kJ/mol	Joback Method
log10ws	-7.92		Crippen Method
logp	7.592		Crippen Method
mcvol	342.680	ml/mol	McGowan Method
pc	1136.73	kPa	Joback Method
tb	959.86	K	Joback Method
tc	1175.38	K	Joback Method
tf	600.97	K	Joback Method
vc	1.278	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1166.24	J/mol×K	959.86	Joback Method
cpg	1185.15	J/mol×K	995.78	Joback Method
cpg	1203.28	J/mol×K	1031.70	Joback Method
cpg	1220.76	J/mol×K	1067.62	Joback Method
cpg	1237.70	J/mol×K	1103.54	Joback Method
cpg	1254.23	J/mol×K	1139.46	Joback Method
cpg	1270.46	J/mol×K	1175.38	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C103991&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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